

CUSTOMER SERVICE RESPONSE SYSTEM FOR INTERACTION WITH CUSTOMER
SERVICE AGENTS

FIELD OF THE INVENTION

5 This invention relates generally to customer service response systems, and more particularly to a customer service response system which enables a customer service agent to selectively automate a portion of the response.

BACKGROUND OF THE INVENTION

10 Modern companies have limited interaction with most consumers. Generally, consumer contact is limited to customer service phone calls placed by the consumer. As such, it is prudent business to provide prompt, efficient service to consumers placing these customer service phone calls. Long delays in receiving help may sour the consumer towards the company, which, in some cases, may result in lost profits.

15 A Therefore, ~~it is not surprising that~~ ^{many} companies have ^{been} ~~implemented~~ ^{ing} customer service response systems ^{which help} ~~which help~~ to automate the customer service process to increase the promptness and efficiency of the customer service call center. These response systems ~~typically~~ gather preliminary information from a caller and subsequently pass the information to a customer service agent. Unfortunately, ~~modern~~ ^{these} systems leave much to be desired. These systems are
20 usually pre-programmed to obtain specific information, and the customer service agent has no control over the information acquired. Further, once the automated system has collected the preliminary information, and passed it on to the customer service agent, it ceases to operate,

requiring
forcing the customer service agent to handle only one caller at a time. This requires companies to spend resources hiring and training extra customer service agents and still results in long wait times.

It would thus be beneficial to have a customer service response system with which a customer service agent can interact, thereby allowing the agent greater freedom to obtain the information necessary for prompt and expedient customer service.

SUMMARY OF THE INVENTION

The present invention provides a customer service response system (CSRS) which provides the ability to simultaneously communicate with multiple customers.

An embodiment of the invention provides a call center that includes a customer service response system (CSRS) capable of responding to an incoming telephone call from a calling party by playing a message to the calling party and a graphical user interface (GUI) in electrical communication with the CSRS. The GUI is configured to receive and display information from the CSRS. The information received from said CSRS originates from the calling party.

According to another aspect of the invention there is provided a method of servicing a call at a call center. The method includes receiving information from a caller at a customer service response system (CSRS). The information is displayed on a graphical user interface (GUI). A call service agent employs the GUI to prompt the CSRS to send a message to the caller, and the CSRS transmits the message for receipt by the caller.

According to still another aspect of the invention, there is provided a call center that includes a call system response (CSR) module configured to receive information from multiple

A telephone calls. ^{The} ~~The~~ call center also includes a graphical user interface (GUI) module in electrical communication with the CSR module. The GUI module is configured to display the information received from the telephone calls. The GUI module is also configured to initiate a response to the information.

5 Another aspect of the invention provides a call center that includes a customer service response system (CSRS) capable of simultaneously responding to multiple incoming telephone calls from multiple calling parties. The CSRS plays a message for receipt by each of the calling parties. The call center also includes a graphical user interface (GUI) in electrical
communication with the CSRS and configured to display information from the CSRS that
10 originated from at least one of the calling parties. The CSRS includes voice recognition software. Information from at least one of the calling parties is received by the CSRS as a voice signal. The voice recognition software converts the voice signal into a text message for display on the GUI.

15 The invention will next be described in connection with certain illustrated embodiments and practices. However, it will be clear to those skilled in the art that various modifications, additions and subtractions can be made without departing from the spirit or scope of the claims.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 illustrates one embodiment of the present invention.

20 A Figure 2 illustrates a ~~typical~~ computer display that can be viewed by a customer service agent.

DETAILED DESCRIPTION OF THE INVENTION

The present invention provides a customer service response system (CSRS) which a customer service agent can selectively employ to simultaneously interact with one or more customers.

5 Figure 1 illustrates a block diagram of a typical interaction when a call is placed to a customer service call center which utilizes the present invention. A caller 10 places a phone call to the customer service call center, which employs the CSRS 20. Upon receiving the phone call, the CSRS 20 may answer the call. In an embodiment of the invention the customer service agent
10 may answer the call directly at the customer service agents option (e.g. if there are very few incoming calls, etc.). Although this option is not required by the invention.

When the CSRS 20 answers the call, it may play a greeting, such as the name of the company. The CSRS 20 may also provide automated menu information. For example, it may provide the caller 10 with the option of listening to his current balance, placing an order,
15 speaking to a customer service agent, contacting a specific extension, or some other options.

Depending on the option chosen by the caller 10, the CSRS 20 may prompt the caller for preliminary information. For example, it may prompt the caller for an account number, a name, etc. The caller 10 may provide this information using the touch-tone keypad. The CSRS 20 may have voice-recognition software, which is capable of translating the caller's voice signals into digital information. Thus, the caller 10 may also provide this information simply by speaking
20 the caller's name, account number, etc. into the telephone. The CSRS 20 may repeat the inputted information to the caller 10 to ascertain whether it has been correctly entered into the system (although not required). If the inputted information was not correctly entered into the system, the

caller 10 may be provided with an option to re-input the information.

The CSRS 20 may pass the caller's information to the customer service agent 30, or it may act upon the information. For example, if the caller 10 is attempting to purchase an item by phone. After the caller 10 selects the purchase and inputs a credit card number, the CSRS 20 may contact a credit card authorization center located outside the customer service call center to obtain authorization for such a payment. If authorization is granted, the CSRS 20 may simply forward a message to the agent 30 signifying "approved", thereby shielding the caller's credit number from the agent 30 and providing greater security. Alternatively, the CSRS 20 may simply provide the approval to the customer, thereby eliminating the customer service representative completely. Additionally, the CSRS 20 may forward the call to the appropriate person. For example, the caller may be seeking employment in which case the CSRS 20 could forward the call to the Human Resources department instead of to the customer service agent.

As illustrated in Figure 2, inputted information, passed from the CSRS 20 to the agent 30, may appear on the agent's computer display 100. The inputted information may appear as a pop up window 200 or it may appear in a default window that has been previously opened. This information may include account number, expiration date, name, etc.

Rather than speak to a customer immediately, however, the agent 30 may continue to utilize the CSRS 20 through a Graphic User Interface (GUI) on a telephone, computer, or telephone adjunct device. For example, the GUI may include an agent interaction menu 300 that includes a list of stock, customized, or customizable messages 400 which the agent 30 can transmit to the caller 10. For example, by pressing a graphical button or a soft-key associated with one message, the agent 30 may prompt the caller 10 for the caller's mother's maiden name.

The CSRS 20 will then voice-prompt the caller 10 to provide his/her mother's maiden name.

Such a voice prompt may be in a computerized voice, in the agent's voice, in a third party's voice or in some combination thereof. Once the caller speaks the name (or other requested

information), or keys it in using the telephone keypad, into the telephone, the CSRS 20 may

forward the information to the agent 30 as a sound file, or it may use its voice-recognition

software to convert the information and forward it as digital information in a pop-up window 100

or in the default window. The interaction menu 300 may provide other message options as well.

For example, a typical question asked by customer service agents is "How may we assist you

today?" Such a question may be sent to the caller 10 as a prompt simply by choosing the

appropriate button in the interaction menu 300 on the GUI. Because the agent 30 may retrieve

information simply by interacting with the GUI rather than through an involved telephone

conversation, the agent 30 may simultaneously service multiple callers. For example, the

customer service agent could send a prompt to one or more customers while speaking with

another customer, could broadcast the same prompt to multiple callers, etc.

The GUI menu may also have a button 500 so that the agent's headset or telephone is

activated, allowing the agent to verbally communicate with the caller. It may also have a button

to de-activate the agent's headset or telephone.

Those skilled in the art will note that the CSRS 20 may also be used in Internet chat

sessions. Since the agent 30 may prompt the caller 10 via a GUI menu rather than typing the

information manually, an agent 30 is better equipped to handle multiple chat sessions. For

example, the agent's GUI 100 may be partitioned into several windows, each window containing

individual pop-up windows with information for the different callers 10.

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Having described the invention, what is claimed is:

[illegible]